CIVIL AIM CONSULTANTS & ENGINEERS

(Building Geo-Tech & Highway Materials Testing Laboratory)

An ISO 9001-2015 Certified Company
NABL Accredited As Per ISO/IEC 17025:2017 Laboratory

Job No.: CACE/BBMP/KRIDL/W.No.13/2020-21

Date: 06.11.2020

TEST REPORT

CLIENT	:	**Assistant Executive Engineer,** Project Division, Dasarahalli Zone, BBMP, Bangalore.
AGENCY	:	**Technical Manager,** KRIDL, Bangalore.
NAME OF THE WORK	:	Improvements work at Mustering Centre for Pourakarmikas in Ward No.13, BBMP, Bangalore.
SAMPLE ID	:	Cement (Zuari OPC 53 Grade)
DATE OF MANUFACTURE		October - 2020
DATE OF TESTING		04.11.2020 to 06.11.2020
SAMPLES SUPPLIED BY	:	AGENCY

The results of the tests conducted on the cement sample are as follows:

Sl.No	Descriptions	Test Method as per IS	Test Result	Requirements as per IS: 269-2015
1	a) Initial Setting Time	IS-4031 (Part -5)	130 Minutes	Not Less than 30 Minutes
	b) Final Setting Time	IS-4031 (Part -5)	345 Minutes	Not More than 600 Minutes
2	Soundness	IS-4031 (Part 3) by the Le-Chatelier method	1 mm	Not more than 10 mm
3	Standard Consistency	IS-4031 (Part -4)	30.00 %	-

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Asst. Executive Engineer
Project Division, Dasrahalli Zone
BBMP, Bangalore

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Date : 06.11.2020

TEST REPORT ON COARSE AGGREGATES

Client : **Assistant Executive Engineer,** Project Division, Dasarahalli Zone, BBMP, Bangalore.
Agency : **Technical Manager,** KRIDL, Bangalore.
Name of Work : Improvements work at Mustering Centre for Pourakarmikas in Ward No.13, BBMP, Bangalore.
Date of Testing : 06.11.2020
IS Code : IS 383:2016
: IS 2386 (Part 1):1963(RA 2011)
Material : 40mm Aggregates

Total Wt. of Aggregates in gms 15000

Is Sieve Size in mm	Weight Retained (gm)	Retained Weight in %	Cumulative Retained Weight in %	Cumulative Weight Passing in %	Spec.Limits
80	0	0	0	100	100
40	198	1.32	1.32	98.68	95-100
20	8326	55.51	56.83	43.17	30-70
10	3254	21.69	78.52	21.48	10-35
4.75	2810	18.73	97.25	2.75	0-5

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Job No.: CACE/BBMP/KRIDL/W.No.13/2020-21 Date : 06.11.2020

TEST REPORT ON FINE AGGREGATES (SAND)
IS 1542-1992

Client : **Assistant Executive Engineer,** Project Division, Dasarahalli Zone, BBMP, Bangalore.
Agency : **Technical Manager,** KRIDL, Bangalore.
Name of Work : Improvements work at Mustering Centre for Pourakarmikas in Ward No.13, BBMP, Bangalore.
Date of Testing : 06.11.2020
Material : Sand(Plastering)

Total wt. of aggregates in gms = **1000**

Is Sieve Size in mm	Weight Retained (gm)	Retained Weight in %	Cumulative Retained Weight in %	Cumulative Weight Passing in %	Spec.Limits as per IS 1542-1992
10	0	0	0	100	100
4.75	14	1.40	1.40	98.6	95-100
2.36	18	1.80	3.20	96.8	95-100
1.18	35	3.50	6.70	93.3	90-100
600 Micron	76	7.60	14.30	85.7	80-100
300 Micron	256	25.60	39.90	60.1	20-65
150 Micron	498	49.80	89.70	10.3	0-15

3

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Job No.: CACE/BBMP/KRIDL/W.No.13/2020-21 Date : 11.11.2020

TEST REPORT ON SOLID CONCRETE BLOCKS

Client : **Assistant Executive Engineer,** Project Division, Dasarahalli Zone, BBMP, Bangalore.

Agency : **Technical Manager,** KRIDL, Bangalore.

Name of the Work : Improvements work at Mustering Centre for Pourakarmikas in Ward No.13, BBMP, Bangalore.

Date of Testing : 11.11.2020

Size of Blocks : 400mm x 150mm x 200mm

Cross Sectional Area : 60000 mm^2

Technical Reference : IS: 2185 (Part 1) - 2005

No. of Blocks Tested : 04

Sl.No.	Block ID	Wt. in Kg	Failure load (KN)	Compressive strength (N/mm^2)	Block Density in Kg/M^3	Requirement as per IS 2185 (Part 1) - 2005
1	Block 1	24.2	275.3	4.59	2016.67	Minimum required Compressive Strength of Individual Units 4.00N/mm^2
2	Block 2	23.5	270.6	4.51	2016.67	
3	Block 3	26.2	274.8	4.58	2183.33	
4	Block 4	24.9	272.4	4.54	2075.00	

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Job No.: CACE/BBMP/KRIDL/W.No.13/2020-21

Date: 24.11.2020

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client	: **Assistant Executive Engineer,** Project Division, Dasarahalli Zone, BBMP, Bangalore.
Agency	: **Technical Manager,** KRIDL, Bangalore.
Name of the work	: Improvements work at Mustering Centre for Pourakarmikas in Ward No.13, BBMP, Bangalore.
Sample ID	: Cement Concrete
Size of cubes	: 150mmx150mmx150mm
Cross Sectional Area	: 22500 mm^2
Technical Reference	: IS: 516-1959 (Reaffirmed 2008)
Grade of Concrete	: M_{25}
Compressive Strength as on	: 7th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	17.11.2020	24.11.2020	8.146	389.6	17.32
2	17.11.2020	24.11.2020	8.159	396.3	17.61
3	17.11.2020	24.11.2020	8.182	405.8	18.04

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Test No.: CACE/BBMP/KRIDL/W.No.13/2020-21

Date: 25.12.2020

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client	: **Assistant Executive Engineer,** Project Division, Dasarahalli Zone, BBMP, Bangalore.
Agency	: **Technical Manager,** KRIDL, Bangalore.
Name of the work	: Improvements work at Mustering Centre for Pourakarmikas in Ward No.13, BBMP, Bangalore.
Sample ID	: Cement Concrete for Wall
Size of cubes	: 150mmx150mmx150mm
Cross Sectional Area	: 22500 mm^2
Technical Reference	: IS: 516-1959 (Reaffirmed 2008)
Grade of Concrete	: M_{20}
Compressive Strength as on	: 28th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	27.11.2020	25.12.2020	8.145	502.2	22.32
2	27.11.2020	25.12.2020	8.138	516.4	22.95
3	27.11.2020	25.12.2020	8.184	488.9	21.73

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Ref No: CACE/BBMP/KRIDL/W.No.13/2020-21

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Date: 05.12.2021

Client	: Assistant Executive Engineer, Project Division, Dasarahalli Zone, BBMP, Bangalore.
Agency	: Technical Manager, KRIDL, Bangalore.
Name of the work	: Improvements work at Mustering Centre for Pourakarmikas in Ward No.13, BBMP, Bangalore.
Sample ID	: Cement Concrete for Deck slab
Size of cubes	: 150mmx150mmx150mm
Cross Sectional Area	: 22500 mm^2
Technical Reference	: IS: 516-1959 (Reaffirmed 2008)
Grade of Concrete	: M_{20}
Compressive Strength as on	: 28th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	08.12.2020	05.12.2021	8.169	515.2	22.90
2	08.12.2020	05.12.2021	8.205	509.3	22.64
3	08.12.2020	05.12.2021	8.181	486.9	21.64

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Job No.: CACE/BBMP/KRIDL/W.No.13/2020-21

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Date: 16.12.2020

Client	: **Assistant Executive Engineer,** Project Division, Dasarahalli Zone, BBMP, Bangalore.
Agency	: **Technical Manager,** KRIDL, Bangalore.
Name of the work	: Improvements work at Mustering Centre for Pourakarmikas in Ward No.13, BBMP, Bangalore.
Sample ID	: Cement Concrete
Size of cubes	: 150mmx150mmx150mm
Cross Sectional Area	: 22500 mm^2
Technical Reference	: IS: 516-1959 (Reaffirmed 2008)
Grade of Concrete	: M_{15}
Compressive Strength as on	: 7th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	09.12.2020	16.12.2020	8.132	266.8	11.86
2	09.12.2020	16.12.2020	8.140	276.5	12.29
3	09.12.2020	16.12.2020	8.125	284.5	12.64

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Job No: CACL/BBMP/KRIDL/W.No.13/2020-21 Date: 21.12.2020

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client	: **Assistant Executive Engineer,** Project Division, Dasarahalli Zone, BBMP, Bangalore.
Agency	: **Technical Manager,** KRIDL, Bangalore.
Name of the work	: Improvements work at Mustering Centre for Pourakarmikas in Ward No.13, BBMP, Bangalore.
Sample ID	: Cement Concrete
Size of cubes	: 150mmx150mmx150mm
Cross Sectional Area	: 22500 mm^2
Technical Reference	: IS: 516-1959 (Reaffirmed 2008)
Grade of Concrete	: M_{15}
Compressive Strength as on	: 7th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	14.12.2020	21.12.2020	8.124	275.2	12.23
2	14.12.2020	21.12.2020	8.146	262.3	11.66
3	14.12.2020	21.12.2020	8.155	285.6	12.69

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Job No.: CACE/BBMP/KRIDL/W.No.13/2020-21 Date: 28.12.2020

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client	: **Assistant Executive Engineer,** Project Division, Dasarahalli Zone, BBMP, Bangalore.
Agency	: **Technical Manager,** KRIDL, Bangalore.
Name of the work	: Improvements work at Mustering Centre for Pourakarmikas in Ward No.13, BBMP, Bangalore.
Sample ID	: Cement Concrete
Size of cubes	: 150mmx150mmx150mm
Cross Sectional Area	: 22500 mm^2
Technical Reference	: IS: 516-1959 (Reaffirmed 2008)
Grade of Concrete	: M_{15}
Compressive Strength as on	: 7th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	21.12.2020	28.12.2020	8.165	256.2	11.39
2	21.12.2020	28.12.2020	8.144	269.3	11.97
3	21.12.2020	28.12.2020	8.152	284.5	12.64

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